

DO NOT REMOVE OR EDIT INFORMATION IN THIS SECTION

FOR INTERNAL USE ONLY

| | |
|-------------------|--|
| Template Name | 60.5420a(b) Annual Report (Spreadsheet Template) |
| CitationID | 60.5420a(b) |
| Template Version | v1.00 |
| Last Updated Date | |

40 CFR Part 60, Subpart OOOOa Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction Commenced on or After January 1, 2015 - §60.5420a Annual Report Spreadsheet Template

Instructions for Spreadsheet Template

Purpose:

This spreadsheet template was designed by the U.S. EPA to facilitate annual reporting for Oil and Gas Facilities under 40 CFR Part 60, Subpart OOOOa. For more information, visit the Central Data Exchange (<https://cdx.epa.gov>)

Electronic reporting:

Electronic submission of annual reports through the EPA's Compliance and Emissions Data Reporting (CEDRI) is required under 40 CFR Part 60, Subpart OOOOa.

The CEDRI spreadsheet template upload feature allows you to submit data in a single report for a single facility or multiple facilities. Data for the site(s) must be entered into the worksheet labeled "Site Information" in this Excel workbook. Each row represents a single site. The Site Record No. will be used to match the information on each tab to the appropriate site.

IMPORTANT: For each site/facility record found in the "Site Information" worksheet, you may reference the citation number for each citation found in the workbook or provide individual file names for each individual citation record. You must provide both as an example.

The spreadsheet must be uploaded into CEDRI as a single ZIP file, which must include this Excel workbook and all of the worksheets found in the workbook (e.g., the Certification file found in the "Site Information" worksheet).

Note: If you are uploading file attachments for your report, the uploaded files may be in any format (e.g., zip, docx, PDF). You must first zip the excel file(s) into a separate ZIP file to the master ZIP file that will be uploaded into CEDRI.

Once all data have been entered in the worksheet, combine this Excel workbook and all attachment files (including any ZIP file for attachments) into a single ZIP file for upload to CEDRI.

Please ensure your report includes all of the required data elements found in the listed citations below for this spreadsheet as specified in paragraph (b)(11) of this section.

on, Modification or Reconstruction Commenced After September 18,

CFR part 60, subpart OOOOa. CEDRI is accessed through the EPA's

nder §60.5420a(b).

*e facilities, as well as multiple sites, using this EPA provided Excel
h row in the "Site Information" worksheet includes the data for a*

***nce a single file attachment that includes all information
cord. In the examples provided in the workbook, we***

***ook and any related attachments that were referenced in
1" worksheet).***

If you would like to include an Excel file(s) as an attachment, you

2 file containing separate excel file(s), if applicable) into a single ZIP

t upload submission.

§60.5420a What are my notification, reporting, and recordkeeping requirements?

(b) *Reporting requirements*. You must submit annual reports containing the information specified in paragraphs (b)(9) or (10) of this section, if applicable, except as provided in paragraph (b)(13) of this section. You must submit an annual report is due no later than 90 days after the end of the initial compliance period as determined according to paragraph (b)(13) of this section. If you own or operate more than one affected facility, you may submit one report for multiple affected facilities. If you submit one report for multiple affected facilities, you must include the information specified in paragraphs (b)(1) through (8) of this section, except as provided in paragraph (b)(13) of this section. Annual reports must be included. You may arrange with the Administrator a common schedule on which reports required by this part must be submitted.

(1) The general information specified in paragraphs (b)(1)(i) through (iv) of this section for all reports.

(i) The company name, facility site name associated with the affected facility, US Well ID or US Well ID associated with the facility, include a description of the site location and provide the latitude and longitude coordinate of the site, based on the North American Datum of 1983.

(ii) An identification of each affected facility being included in the annual report.

(iii) Beginning and ending dates of the reporting period.

(iv) A certification by a certifying official of truth, accuracy, and completeness. This certification shall state that, to the best of the certifying official's knowledge, the information in the document is true, accurate, and complete.

(2) For each well affected facility, the information in paragraphs (b)(2)(i) through (iii) of this section.

(i) Records of each well completion operation as specified in paragraphs (c)(1)(i) through (iv) and (vi) of this section. If you are submitting the records specified in paragraph (c)(1)(i) through (iv) of this section, the owner or operator may submit the records required by paragraph (c)(1)(v) of this section for each well completion.

(ii) Records of deviations specified in paragraph (c)(1)(ii) of this section that occurred during the reporting period.

(iii) Records specified in paragraph (c)(1)(vii) of this section, if applicable, that support a determination under 60.5380a(d) that a well is not a plugged well.

(3) For each centrifugal compressor affected facility, the information specified in paragraphs (b)(3)(i) through (iv) of this section.

(i) An identification of each centrifugal compressor using a wet seal system constructed, modified or reconstructed during the reporting period.

(ii) Records of deviations specified in paragraph (c)(2) of this section that occurred during the reporting period.

(iii) If required to comply with §60.5380a(a)(2), the records specified in paragraphs (c)(6) through (11) of this section that occurred during the reporting period.

(iv) If complying with §60.5380a(a)(1) with a control device tested under §60.5413a(d) which meets the criteria in paragraph (b)(3)(iv) of this section for each centrifugal compressor using a wet seal system constructed, modified or reconstructed during the reporting period.

(4) For each reciprocating compressor affected facility, the information specified in paragraphs (b)(4)(i) and (ii) of this section.

(i) The cumulative number of hours of operation or the number of months since initial startup or since the previous statement that emissions from the rod packing are being routed to a process through a closed vent system under paragraph (b)(4)(ii) of this section.

(ii) Records of deviations specified in paragraph (c)(3)(iii) of this section that occurred during the reporting period.

(5) For each pneumatic controller affected facility, the information specified in paragraphs (b)(5)(i) through (iii) of this section.

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through (c)(2)(vii) of

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- (i) An identification of each pneumatic controller constructed, modified or reconstructed during the reporting period.
- (ii) If applicable, documentation that the use of pneumatic controller affected facilities with a natural gas bleed rate.
- (iii) Records of deviations specified in paragraph (c)(4)(v) of this section that occurred during the reporting period.

(6) For each storage vessel affected facility, the information in paragraphs (b)(6)(i) through (vii) of this section.

- (i) An identification, including the location, of each storage vessel affected facility for which construction, modification or reconstruction of the storage vessel shall be in latitude and longitude coordinates in decimal degrees to an accuracy and precision of five (5) digits.
- (ii) Documentation of the VOC emission rate determination according to §60.5365a(e) for each storage vessel throughout the reporting period.
- (iii) Records of deviations specified in paragraph (c)(5)(iii) of this section that occurred during the reporting period.
- (iv) A statement that you have met the requirements specified in §60.5410a(h)(2) and (3).
- (v) You must identify each storage vessel affected facility that is removed from service during the reporting period and the date removed from service.
- (vi) You must identify each storage vessel affected facility returned to service during the reporting period as specified in paragraph (b)(6)(vi) of this section.
- (vii) If complying with §60.5395a(a)(2) with a control device tested under §60.5413a(d) which meets the criteria specified in paragraph (b)(6)(vii) of this section for each storage vessel constructed, modified, reconstructed or returned to service during the reporting period.

(7) For the collection of fugitive emissions components at each well site and the collection of fugitive emissions components at each storage vessel affected facility, you must include in your annual report the information specified in paragraphs (b)(7)(i) through (xii) of this section. For the monitoring survey waived under §60.5397a(g)(5), you must include in your annual report the fact that a monitoring survey was waived.

- (i) Date of the survey.
- (ii) Beginning and end time of the survey.
- (iii) Name of operator(s) performing survey. If the survey is performed by optical gas imaging, you must note the date of the survey.
- (iv) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.
- (v) Monitoring instrument used.
- (vi) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.
- (vii) Number and type of components for which fugitive emissions were detected.
- (viii) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).
- (ix) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.
- (x) The date of successful repair of the fugitive emissions component.
- (xi) Number and type of fugitive emission components placed on delay of repair and explanation for each delay.
- (xii) Type of instrument used to resurvey a repaired fugitive emissions component that could not be repaired during the reporting period.

(8) For each pneumatic pump affected facility, the information specified in paragraphs (b)(8)(i) through (iii) of this section.

- (i) For each pneumatic pump that is constructed, modified or reconstructed during the reporting period, you must include the information specified in paragraphs (b)(8)(i)(A), (B) or (C) of this section.
- (A) No control device or process is available on site.

period, including the identification information specified in §60.5390a(b)(2) or rate greater than 6 standard cubic feet per hour are required and the reasons d.

cation or reconstruction commenced during the reporting period. The location decimals of a degree using the North American Datum of 1983. at became an affected facility during the reporting period or is returned to se id.

od as specified in §60.5395a(c)(1)(ii), including the date the storage vessel affected in §60.5395a(c)(3), including the date the storage vessel affected facility in §60.5413a(d)(11) and §60.5413a(e), records specified in paragraphs (c)(5)(ting period.

components at each compressor station within the company-defined area, the collection of fugitive emissions components at a compressor station, if a moved and the calendar months that make up the quarterly monitoring period f

training and experience of the operator.

plan.

of repair.
ring the initial fugitive emissions finding.

is section.
st provide certification that the pneumatic pump meets one of the conditions

(c)(2).
why.

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rvice during the

ected facility was

y was returned to

vi)(A) through (F) of

e records of each
nitoring survey is
or which the

; described in

(B) A control device or process is available on site and the owner or operator has determined in accordance with device or process.

(C) Emissions from the pneumatic pump are routed to a control device or process. If the control device is designed, the control device is designed to achieve.

(ii) For any pneumatic pump affected facility which has been previously reported as required under paragraph (k) reporting period, provide the identification of the pneumatic pump affected facility and the date it was previous paragraphs (b)(8)(ii)(A), (B) or (C) or (D) of this section.

(A) A control device has been added to the location and the pneumatic pump now reports according to paragraph

(B) A control device has been added to the location and the pneumatic pump affected facility now reports according

(C) A control device or process has been removed from the location or otherwise is no longer available and the p

(D) A control device or process has been removed from the location or is otherwise no longer available and the c evaluation that it is technically infeasible to capture and route the emissions to another control device or proces

(iii) Records of deviations specified in paragraph (c)(16)(ii) of this section that occurred during the reporting period

(12) You must submit the certification signed by the qualified professional engineer according to §60.5411a(d) for

(11) You must submit reports to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX (<https://cdx.epa.gov/>) alternate electronic file format consistent with the extensible markup language (XML) schema listed on the CEDRI is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the calendar days, you must begin submitting all subsequent reports via CEDRI. The reports must be submitted by the submitted.

§60.5393a(b)(5) that it is technically infeasible to capture and route the emis

ed to achieve less than 95 percent emissions reduction, specify the percent er

)(8)(i) of this section and for which a change in the reported condition has oc
ly reported and a certification that the pneumatic pump meets one of the cor

h (b)(8)(i)(C) of this section.

ding to paragraph (b)(8)(i)(B) of this section.

pneumatic pump affected facility now report according to paragraph (b)(8)(i)(
owner or operator has determined in accordance with §60.5393a(b)(5) throug
s.

od.

or each closed vent system routing to a control device or process.

dx.epa.gov/).) You must use the appropriate electronic report in CEDRI for thi
RI Web site (<https://www3.epa.gov/ttn/chief/cedri/>). If the reporting form sp
e appropriate address listed in §60.4. Once the form has been available in CE
ie deadlines specified in this subpart, regardless of the method in which the r

missions to the control

missions reductions

curring during the
conditions described in

A) of this section.
with an engineering

s subpart or an
specific to this subpart
DRI for at least 90
reports are

| | |
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The asterisk (*) next to each field indicates that the corresponding field is required.

| | | | | | | |
|---|--|--|--|--|-----------|--------|
| Facility Record No. * (Field value will automatically generate if a value is not entered.) | Company Name * (§60.5420a(b)(1)(i)) | Facility Site Name * (§60.5420a(b)(1)(i)) | US Well ID or US Well ID Associated with the Affected Facility, if applicable. * (§60.5420a(b)(1)(i)) | Address of Affected Facility * (§60.5420a(b)(1)(i)) | Address 2 | City * |
|---|--|--|--|--|-----------|--------|

| XML Tag: | FacilityName | SiteName | WellId | AddressLine1 | AddressLine2 | CityName |
|----------|-------------------|------------------------------|-----------------------|-----------------------|-----------------|----------------|
| | e.g.: ABC Company | e.g.: XYZ Compressor Station | e.g.: 12-345-67890-12 | e.g.: 123 Main Street | e.g.: Suite 100 | e.g.: Brooklyn |

nmenced After September 18, 2015 - 60.5420a(b) Annual Report

l annual reports:

ALTERNATIVE ADDRESS INFORMATION (IF NO PHYSICAL ADDRESS AVAILABLE FOR SITE *)

| County * | State Abbreviation * | Zip Code * | Responsible Agency Facility ID (State Facility Identifier) | Description of Site Location (\$60.5420a(b)(1)(i)) | Latitude of the Site (decimal degrees to 5 decimals using the North American Datum of 1983) (\$60.5420a(b)(1)(i)) | Longitude of the Site (decimal degrees to 5 decimals using the North American Datum of 1983) (\$60.5420a(b)(1)(i)) |
|----------|----------------------------|------------|---|---|---|--|
|----------|----------------------------|------------|---|---|---|--|

| | | | | | | |
|---|------------------------------|-------------------------------|-------------------|---|---------------------------------------|--|
| CountyName e.g.: Kings County | StateName e.g.: NY | ZipCode e.g.: 11221 | StateFacId | SiteDescription e.g.: 7 miles NE of the intersection of Hwy 123 and Hwy 456 | SiteLatitude e.g.: 34.12345 | SiteLongitude e.g.: -101.12345 |
|---|------------------------------|-------------------------------|-------------------|---|---------------------------------------|--|

| REPORTING INFORMATION | | PE Certification | ADDITIONAL INFORMATION | |
|---|--|---|--|---|
| Beginning Date of Reporting Period.* (\$60.5420a(b)(1)(iii)) | Ending Date of Reporting Period.* (\$60.5420a(b)(1)(iii)) | Please provide the file name that contains the certification signed by a qualified professional engineer for each closed vent system routing to a control device or process. * (\$60.5420a(b)(12)) Please provide only one file per record. | Please enter any additional information. | Enter associated file name reference. |
| PeriodStartDate e.g.: 01/01/2016 | PeriodEndDate e.g.: 06/30/2016 | PeCertFile e.g.: Certification.pdf or XYZCompressorStation.pdf | AddInfo | AddFile e.g.: addlinfo.zip or XYZCompressorStation.pdf |

5760 PDC Energy
5778 PDC Energy
5793 PDC Energy

Miley Pad
Mason Pad
Neff Pad

34-121-24547
34-167-29761
34-059-24481

Sarahsville
Coal Run
Salesville

| | | | | | |
|------------|----|-------|------------------------|----------|-----------|
| Noble | OH | 43779 | 51950 Sarahsville Road | 39.8527 | -81.45764 |
| Washington | OH | 43779 | 1369 Tick Hill Road | 39.56729 | -81.58851 |
| Guernsey | OH | 43778 | 62674 Salem Road | 40.005 | -81.39114 |

| | |
|----------|----------|
| 8/2/2017 | 8/1/2018 |
| 8/2/2017 | 8/1/2018 |
| 8/2/2017 | 8/1/2018 |

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40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced
For each well affected facility, an owner or operator must include the information specified in paragraphs (b)(2)(i) through (iii) of this section in all annual reports.

The asterisk (*) next to each field indicates that the corresponding field is required.

| | | | §60.5432a Low Pressure Wells |
|--|--|---|--|
| Facility Record No. * (Select from dropdown list - may need to scroll up) | United States Well Number* (§60.5420a(b)(1)(ii)) | Records of deviations where well completion operations with hydraulic fracturing were not performed in compliance with the requirements specified in § 60.5375a. * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(ii)) | Please provide the file name that contains the Record of Determination and Supporting Inputs and Calculations * (§60.5420a(b)(2)(iii) and §60.5420a(c)(1)(vii)) Please provide only one file per record. |
| XML Tag: | WellId e.g.: 12-345-67890-12 | DeviationDesc e.g.: On October 12, 2016, a separator was not onsite for the first 3 hours of the flowback period. | DeterminationFile e.g.: lowpressure.pdf or XYZCompressorStation.pdf |

After September 18, 2015 - 60.5420a(b) Annual Report
 Annual reports:

| All Well Completions | | | | |
|--|--|---|---|---|
| Well Completion ID * (\$60.5420a(b)(2)(i) and §60.5420a(c)(1)(i)) | Well Location * (\$60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) | Date of Onset of Flowback Following Hydraulic Fracturing or Refracturing * (\$60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) | Time of Onset of Flowback Following Hydraulic Fracturing or Refracturing * (\$60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) | Date of Each Attempt to Direct Flowback to a Separator * (\$60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) |
| WellCompletionId | AffWellLocation | AffOnsetDate | AffOnsetTime | AffAttemptDate |
| e.g.: Completion ABC | e.g.: 34.12345 latitude, -101.12345 longitude | e.g.: 10/16/16 | e.g.: 10 a.m. | e.g.: 10/16/16 |

Well Affected Facilities Required to Comply with §60.5375a(a) and §60.537!

| Time of Each Attempt to Direct Flowback to a Separator * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) | Date of Each Occurrence of Returning to the Initial Flowback Stage * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) | Time of Each Occurrence of Returning to the Initial Flowback Stage * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) | Date Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) | Time Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) |
|--|--|--|--|--|
| AffAttemptTime | AffOccurenceDate | AffOccurenceTime | AffShutInDate | AffShutInTime |
| e.g.: 10 a.m. | e.g.: 10/16/16 | e.g.: 10 a.m. | e.g.: 10/16/16 | e.g.: 10 a.m. |

5a(f)

| Duration of Flowback in Hours * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)- (B)) | Duration of Recovery in Hours * (<i>Not Required for Wells Complying with §60.5375a(f)</i>) (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)) | Disposition of Recovery * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)- (B)) | Duration of Combustion in Hours * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)- (B)) | Duration of Venting in Hours * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)- (B)) |
|---|--|---|---|--|
| AffFlowbackHrs | AffRecoveryHrs | AffRecoveryDesc | AffCombustionHrs | AffVentingHrs |
| e.g.: 5 | e.g.: 5 | e.g.: Used as onsite fuel | e.g.: 5 | e.g.: 5 |

Reason for Venting in lieu of Capture or
Combustion *
(\$60.5420a(b)(2)(i) and
§60.5420a(c)(1)(iii)(A)-(B))

AffVentingReason

e.g: No onsite storage or combustion
unit was available at the time of
completion.

Exceptions Under §60.5375a(a)(3) - Technically Infeasible to Route to the Gas Flow Line or Collector

| Well Location * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iv)) | Specific Exception Claimed * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iv)) | Starting Date for the Period the Well Operated Under the Exception * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iv)) | Ending Date for the Period the Well Operated Under the Exception * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iv)) | Why the Well Meets the Claimed Exception * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iv)) |
|--|--|---|---|--|
| ExcWellLocation e.g.: 34.12345 latitude, -101.12345 longitude | ExcExceptionClaimed e.g.: Technical infeasibility under 60.5375a(a)(3) | ExcPeriodStartDate e.g.: 10/16/2016 | ExcPeriodEndDate e.g.: 10/18/2016 | ExcExceptionDesc e.g.: As further described in this report, technical issues prevented the use of the gas for useful purposes. |



ction System, Re-inject into a Well, Use as an Onsite Fuel Source, or Use for Another Useful Purpose Served By a Purchased Fuel or Raw Mat

| | | | | |
|--|--|--|---|--|
| <div>Name of Nearest Gathering Line * (\$60.5420a(b)(2)(i) and \$60.5420a(c)(1)(iii)(A)-(B))</div> | <div>Location of Nearest Gathering Line * (\$60.5420a(b)(2)(i) and \$60.5420a(c)(1)(iii)(A)-(B))</div> | <div>Technical Considerations Preventing Routing to this Line * (\$60.5420a(b)(2)(i) and \$60.5420a(c)(1)(iii)(A)-(B))</div> | <div>Capture, Reinjection, and Reuse Technologies Considered * (\$60.5420a(b)(2)(i) and \$60.5420a(c)(1)(iii)(A)-(B))</div> | <div>Aspects of Gas or Equipment Preventing Use of Recovered Gas as a Fuel Onsite * (\$60.5420a(b)(2)(i) and \$60.5420a(c)(1)(iii)(A)-(B))</div> |
| <div>ExcGIName</div> <div>e.g.: ABC Line</div> | <div>ExcGILocation</div> <div>e.g.: 100 miles away at 34.12345 latitude, -101.12345 longitude</div> | <div>ExcGIPreventDesc</div> <div>e.g.: right of use</div> | <div>ExcTechConsidered</div> <div>e.g.: on-site generators</div> | <div>ExcGasAspect</div> <div>e.g.: gas quality</div> |

| | |
|---|--|
| Serial | |
| Technical Considerations Preventing Use of Recovered Gas for Other Useful Purpose * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) | Additional Reasons for Technical Infeasibility * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) |
| ExcPreventReuse | ExcAddReason |
| e.g. gas quality | e.g. well damage or clean-up |

Well Affected Facilities Meeting the Criteria of §60.5375:

| Well Location* (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C)) | Date of Onset of Flowback Following Hydraulic Fracturing or Refracturing * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C)) | Time of Onset of Flowback Following Hydraulic Fracturing or Refracturing * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C)) | Date Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C)) | Time Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C)) |
|--|---|---|--|--|
| LiqWellLocation | LiqOnsetDate | LiqOnsetTime | LiqShutInDate | LiqShutInTime |
| e.g.: 34.12345 latitude, -101.12345 longitude | e.g.: 10/16/16 | e.g.: 10 a.m. | e.g.: 10/16/16 | e.g.: 10 a.m. |



a(a)(1)(iii)(A) - Not Hydraulically Fractured/Refractured with Liquids or Do Not Generate Condensate, Intermediate Hydrocarbon Liquids,

| Duration of Flowback in Hours * (\$60.5420a(b)(2)(i) and \$60.5420a(c)(1)(iii)(A) and (C)) | Duration of Combustion in Hours * (\$60.5420a(b)(2)(i) and \$60.5420a(c)(1)(iii)(A) and (C)) | Duration of Venting in Hours * (\$60.5420a(b)(2)(i) and \$60.5420a(c)(1)(iii)(A) and (C)) | Reason for Venting in lieu of Capture or Combustion * (\$60.5420a(b)(2)(i) and \$60.5420a(c)(1)(iii)(A) and (C)) | Does well still meet the conditions of §60.5375a(1)(iii)(A)? * (\$60.5420a(b)(2)(i) and \$60.5420a(c)(1)(iii)(C)(2)) |
|---|--|---|---|---|
| LiqFlowbackHrs e.g.: 5 | LiqCombustionHrs e.g.: 5 | LiqVentingHrs e.g.: 5 | LiqVentingReason e.g.: No onsite storage or combustion unit was available at the time of completion. | LiqRegConditionFlag e.g.: Yes |

, or Produced Water (No Liquid Collection System or Separator Onsite)

| <p>If applicable Date Well Completion Operation Stopped *</p> <p>((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(2))</p> | <p>If applicable: Time Well Completion Operation Stopped *</p> <p>((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(2))</p> | <p>If applicable: Date Separator Installed *</p> <p>((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(2))</p> | <p>If applicable: Time Separator Installed *</p> <p>((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(2))</p> | <p>Are there liquids collection at the well site? Based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *</p> <p>((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(3))</p> |
|--|--|--|--|--|
| LiqStopDate | LiqStopTime | LiqSeparatorDate | LiqSeparatorTime | LiqCollectionFlag |
| e.g.: 10/16/16 | e.g.: 10 a.m. | e.g.: 10/16/16 | e.g.: 10 a.m. | e.g.: No |

| | | | | | |
|--|--|---|--|--|--|
| Well Affected Facilities Required to Comply with Both §60.5375a(a)(1) and (3) Using a Digital Photo in lieu of Records Required by §60.5420a(c)(1)(i) through (iv) | | | Well Affected Facilities Meeting the Criteria of §60.5375a(g) - <: | | |
| Please provide the file name that contains the Digital Photograph with Date Taken and Latitude and Longitude Imbedded (or with Visible GPS), Showing Required Equipment (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(v)) Please provide only one file per record. | | Well Location* (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(vi)(B)) | | Please provide the file name that contains the Record of Analysis Performed to Claim Well Meets §60.5375a(g), Including GOR Values for Established Leases and Data from Wells in the Same Basin and Field * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(vi)(A)) Please provide only one file per record. | |
| WellFile e.g.: completion1.pdf or XYZCompressorStation.pdf | | GasWellLocation e.g.: 34.12345 latitude, -101.12345 longitude | | GasAnalysisFile e.g.: GORcalcs.pdf or XYZCompressorStation.pdf | |

300 scf of Gas per Stock Tank Barrel of Oil Produced

Does the well meet the requirements of
§60.5375a(g)?

Based on information and belief formed after
reasonable inquiry, the statements and information
in the document are true, accurate, and complete. *

((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(vi)(C))

GasRequirementFlag

e.g.: Yes

| | |
|---|--|
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| CitationID | 60.5420a(b) |
| Template Version | v1.00 |
| Last Updated Date | |

40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities

For each centrifugal compressor affected facility, an owner or operator must

The asterisk (*) next to each field indicates that the corresponding field is required.

| | |
|---|---|
| Facility Record No. * (Select from dropdown list - may need to scroll up) | Compressor ID * (\$60.5420a(b)(1)(ii)) |
|---|---|

XML Tag: CompressorId

e.g.: Comp-12b

SECTION

ities for which Construction, Modification or Reconstruction Commenced After September 18, 2008, include the information specified in paragraphs (b)(3)(i) through (iv) of this section in all annual reports.

| | |
|---|---|
| For centrifugal compressors using a wet seal system, was the compressor constructed, modified or reconstructed during the reporting period? * (§60.5420a(b)(3)(i)) | Deviations where the centrifugal compressor was not operated in compliance with requirements * (§60.5420a(b)(3)(ii) and §60.5420a(c)(2)) |
| CompressorConstruct e.g.: modified | CompressorDeviation e.g.: On October 12, 2016, the pilot flame was not functioning on the combustion unit controlling the compressor. |

015 - 60.5420a(b) Annual Report
reports:

| Centrifugal Compressor | |
|--|---|
| Record of Each Closed Vent System Inspection * (§60.5420a(b)(3)(iii) and §60.5420a(c)(6)) | Record of Each Cover Inspection * (§60.5420a(b)(3)(iii) and §60.5420a(c)(7)) |
| VentSystemInspection e.g.: Annual inspection conducted on 12/16/16. No defects observed. No detectable emissions observed. | VentCoverInspection e.g.: Annual inspection conducted on 12/16/16. No defects observed. |

Legal Compressors Required to Comply with §60.5380a(a)(2) - Cover and Closed Vent System Requirements

| | |
|--|--|
| <p>If you are subject to the bypass requirements of §60.5416a(a)(4) and you monitor the bypass with a flow indicator, a record of each time the alarm is sounded. * (§60.5420a(b)(3)(iii) and §60.5420a(c)(8))</p> | <p>If you are subject to the bypass requirements of §60.5416a(a)(4) and you use a secured valve, a record of each monthly inspection. * (§60.5420a(b)(3)(iii) and §60.5420a(c)(8))</p> |
|--|--|

VentAlarmRecord

e.g.: On 4/5/17, the bypass alarm sounded for 2 mintues.

VentMonthInspection

e.g.: Monthly inspection performed 4/15/17. Valve was maintained in the non-diverting position. Vent stream was not diverted through the bypass.

| | | Centrifugal Compresso |
|---|---|--|
| <p>If you are subject to the bypass requirements of §60.5416a(a)(4) and you use a lock-and-key valve, a record of each time the key is checked out. *</p> <p>(§60.5420a(b)(3)(iii) and §60.5420a(c)(8))</p> | <p>Record of No Detectable Emissions Monitoring Conducted According to §60.5416a(b) *</p> <p>(§60.5420a(b)(3)(iii) and §60.5420a(c)(9))</p> | <p>Records of the Schedule for Carbon Replacement * (determined by design analysis)</p> <p>(§60.5420a(b)(3)(iii) and §60.5420a(c)(10))</p> |
| VentKeyRecord | VentDetectEmission | CarbonReplaceSch |
| e.g.: The key was not checked out during the annual reporting period. | e.g.: Annual inspection conducted on 12/16/16. The highest reading using the FID was 300 ppmv. | e.g.: Carbon must be replaced every 2 years. |

| rs with Carbon Adsorption | | Centrifugal Compressors Subject to Cont |
|--|---|---|
| <p>Records of Each Carbon Replacement *</p> <p>(§60.5420a(b)(3)(iii) and §60.5420a(c)(10))</p> | <p>Minimum/Maximum Operating Parameter Value *</p> <p>(§60.5420a(b)(3)(iii) and §60.5420a(c)(11))</p> | <p>Please provide the file name that contains the Continuous Parameter Monitoring System Data *</p> <p>(§60.5420a(b)(3)(iii) and §60.5420a(c)(11))</p> <p>Please provide the file name that contains.</p> |
| CarbonReplaceRecord | CtrlOpParameter | CtrlParameterFile |
| e.g.: Carbon was not replaced during the annual reporting period. | e.g.: Minimum temperature differential across catalytic oxidizer bed of 20°F. | e.g.: CPMS_Comp-12b.pdf or XYZCompressorStation.pdf |

Control Device Requirements of §60.5412a(a)-(c)

| | | | | |
|--|--|--|--|---|
| <p>Please provide the file name that contains the Calculated Averages of Continuous Parameter Monitoring System Data * (§60.5420a(b)(3)(iii) and §60.5420a(c)(11)) Please provide the file name that contains.</p> | <p>Please provide the file name that contains the Results of All Compliance Calculations * (§60.5420a(b)(3)(iii) and §60.5420a(c)(11)) Please provide the file name that contains.</p> | <p>Please provide the file name that contains the Results of All Inspections * (§60.5420a(b)(3)(iii) and §60.5420a(c)(11)) Please provide the file name that contains.</p> | <p>Make of Purchased Device * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(i))</p> | <p>Model of Purchased Device * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(i))</p> |
| CtrlAveragesFile | CtrlComplianceFile | CtrlInspectionFile | WetDeviceMake | WetDeviceModel |
| e.g.: CPMSAvg_Comp-12b.pdf or XYZCompressorStation.pdf | e.g.: ComplRslts_Comp-12b.pdf or XYZCompressorStation.pdf | e.g.: InspectRslts_Comp-12b.pdf or XYZCompressorStation.pdf | e.g.: Incinerator Guy | e.g.: 400 Combustor |

Centrifugal Cc

| | | | |
|---|---|---|--|
| Serial Number of Purchased Device * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(i)) | Date of Purchase (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(ii)) | Please provide the file name that contains the Copy of Purchase Order (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(iii)) Please provide the file name that contains. | Latitude of Centrifugal Compressor (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(iv)) |
| WetDeviceId | WetPurchaseDate | WetPurchaseFile | WetComplatitude |
| e.g.: 123B3D392 | e.g.: 12/10/16 | e.g.: purchase_order.pdf or XYZCompressorStation.pdf | e.g.: 34.12345 |

Compressors Using a Wet Seal System Constructed, Modified, or Reconstructed During Re

| | | |
|--|---|--|
| <p>Longitude of Centrifugal Compressor (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(iv))</p> | <p>Latitude of Control Device (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(iv))</p> | <p>Longitude of Control Device (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(iv))</p> |
| WetCompLongitude | WetCtrlLatitude | WetCtrlLongitude |
| e.g.: -101.12345 | e.g.: 34.12340 | e.g.: -101.12340 |

Reporting Period with Control Device Tested Under §60.5413a(d)

| | | | |
|--|---|---|--|
| <p>As an Alternative to Latitude and Longitude, please provide the file name that contains the Digital Photograph of Device either with Imbedded Latituded and Longitude or Visible GPS (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vii)) Please provide the file name that contains.</p> | <p>Inlet Gas Flow Rate * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(v))</p> | <p>Please provide the file name that contains the Records of Pilot Flame Present at All Times of Operation * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vi)(A)) Please provide the file name that contains.</p> | <p>Please provide the file name that contains the Records of No Visible Emissions Periods Greater Than 1 Minute During Any 15-Minute Period * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vi)(B)) Please provide the file name that contains.</p> |
| WetLocationFile | WetFlowRate | WetFlameFile | WetEmissionFile |
| e.g.: 400_combustor.pdf or XYZCompressorStation.pdf | e.g.: 3000 scfh | e.g.: pilotflame.pdf or XYZCompressorStation.pdf | e.g.: noemissions.pdf or XYZCompressorStation.pdf |

| | | |
|--|--|--|
| <p>Please provide the file name that contains the Records of Maintenance and Repair Log * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vi)(C)) Please provide the file name that contains.</p> | <p>Please provide the file name that contains the Records of Visible Emissions Test Following Return to Operation From Maintenance/Repair Activity * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vi)(D)) Please provide the file name that contains.</p> | <p>Please provide the file name that contains the Records of Manufacturer's Written Operating Instructions, Procedures and Maintenance Schedule * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vi)(E)) Please provide the file name that contains.</p> |
| <p>WetMaintFile e.g.: maintainlog.pdf or XYZCompressorStation.pdf</p> | <p>WetVisibleFile e.g.: emistest.pdf or XYZCompressorStation.pdf</p> | <p>WetInstructionFile e.g.: manufinsruct.pdf or XYZCompressorStation.pdf</p> |

Cell: K11

Comment: Mia, Marcia:

similar requiremnets for storage vessels? It doesn't look like its referenced from the report.

Cell: J12

Comment: Mia, Marcia:

Add for recip comp, pneumatic pumps

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40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Mo
For each reciprocating compressor affected facility, an owner or operator must include the information specif

The asterisk (*) next to each field indicates that the corresponding field is required.

| | | |
|---|---|---|
| Facility Record No. * (Select from dropdown list - may need to scroll up) | Compressor ID * (\$60.5420a(b)(1)(ii)) | Are emissions from the rod packing unit being routed to a process through a closed vent system under negative pressure? * (\$60.5420a(b)(4)(i)) |
| XML Tag: | CompressorId | RodEmissionsFlag |
| | e.g.: Comp-12b | e.g.: no |

dification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report
 ired in paragraphs (b)(4)(i) and (ii) of this section in all annual reports:

| | | |
|--|--|--|
| <p>If emissions are not routed to a process through a closed vent system under negative pressure, what are the cumulative number of hours or months of operation since initial startup or the previous rod packing replacement (whichever is later)? *</p> <p>(§60.5420a(b)(4)(i))</p> | <p>Units of Time Measurement *</p> <p>(§60.5420a(b)(4)(i))</p> | <p>Deviations where the reciprocating compressor was not operated in compliance with requirements* (§60.5420(b)(4)(ii) and §60.5420a(c)(3)(iii))</p> |
| <p>OpCumTime</p> <p>e.g.: 2</p> | <p>OpCumUnit</p> <p>e.g.: months</p> | <p>CompressorDeviation</p> <p>e.g.: Rod packing replacement exceeded 36 months. Replacement occurred after 37 months.</p> |

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40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Constructi

For each pneumatic controller affected facility, an owner or operator must include the information spe

The asterisk (*) next to each field indicates that the corresponding field is required.

| | | |
|---|--|---|
| Facility Record No. * (Select from dropdown list - may need to scroll up) | Pneumatic Controller Identification * (\$60.5420a(b)(1)(ii), §60.5420a(b)(5)(i), and §60.5390a(b)(2) or §60.5390a(c)(2)) | Was the pneumatic controller constructed, modified or reconstructed during the reporting period? * (\$60.5420a(b)(5)(i)) |
|---|--|---|

XML Tag:

ControllerId

e.g.: Controller 12A

ControllerConstruct

e.g.: modified

on, Modification or Reconstruction Commenced After September 18, 201!
:cified in paragraphs (b)(5)(i) through (iii) of this section in all annual repo



| | |
|--|---|
| Month of Installation, Reconstruction, or Modification* (§60.5420a(b)(5)(i) and §60.5390a(b)(2) or §60.5390a(c)(2)) | Year of Installation, Reconstruction, or Modification* (§60.5420a(b)(5)(i) and §60.5390a(b)(2) or §60.5390a(c)(2)) |
| ConstructMonth | ConstructYear |
| e.g.: February | e.g.: 2017 |

5 - 60.5420a(b) Annual Report

rts:

| Pneumatic Controllers with a Natural Gas Bleed Rate Greater than 6 scfh | |
|--|--|
| Documentation that Use of a Pneumatic Controller with a Natural Gas Bleed Rate Greater than 6 Standard Cubic Feet per Hour is required * (\$60.5420a(b)(5)(ii)) | Reasons Why * (\$60.5420a(b)(5)(ii)) |
| CtrlBleedRateDesc e.g.: Controller has a bleed rate of 8 scfh. | CtrlBleedRateReason e.g.: safety bypass controller requires use of a high-bleed controller |

Records of deviations where the pneumatic
controller was not operated in compliance
with requirements*
(§60.5420a(b)(5)(iii) and §60.5420a(c)(4)(v))

ControllerDeviation

e.g.: Controller was not tagged with month
and year of installation.

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40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construct
For each storage vessel affected facility, an owner or operator must include the information specified

The asterisk (*) next to each field indicates that the corresponding field is required.

| | | |
|---|---|---|
| Facility Record No. * (Select from dropdown list - may need to scroll up) | Storage Vessel ID * (§60.5420a(b)(1)(ii) and §60.5420a(b)(6)(i)) | Was the storage vessel constructed, modified or reconstructed during the reporting period? * (§60.5420a(b)(6)(i)) |
|---|---|---|

XML Tag: VesselId VesselConstruct

e.g.: Tank 125

e.g.: modified

tion, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual
in paragraphs (b)(6)(i) through (vii) of this section in all annual reports:

| | | |
|--|---|--|
| Latitude of Storage Vessel (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (\$60.5420a(b)(6)(i)) | Longitude of Storage Vessel (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (\$60.5420a(b)(6)(i)) | If new affected facility or if returned to service during the reporting period, provide documentation of the VOC emission rate determination according to §60.5365a(e).* (\$60.5420a(b)(6)(ii)) |
| VesselLatitude e.g.: 34.12345 | VesselLongitude e.g.: -101.12345 | VesselVocRateDesc e.g.: VOC emission rate is 6.5 tpy. See file rate_determination.pdf for more information. |

| Report

| | | |
|--|---|---|
| Records of deviations where the storage vessel was not operated in compliance with requirements * (§60.5420a(b)(6)(iii) and §60.5420a(c)(5)(iii)) | Have you met the requirements specified in §60.5410a(h)(2) and (3)?* (§60.5420a(b)(6)(iv)) | Removed from service during the reporting period? * (§60.5420a(b)(6)(v)) |
| VesselDeviation e.g.: On October 12, 2016, the pilot flame was not functioning on the combustion unit controlling the storage vessel. | VesselRequirementFlag e.g.: Yes | VesselRemoveFlag e.g.: Yes |

| If removed from service, the date removed from service. * (\$60.5420a(b)(6)(v)) | Returned to service during the reporting period? * (\$60.5420a(b)(6)(vi)) | If returned to service, the date returned to service. * (\$60.5420a(b)(6)(vi)) | Make of Purchased Device * (\$60.5420a(b)(6)(vii) and \$60.5420a(c)(5)(vi)(A)) | Model of Purchased Device * (\$60.5420a(b)(6)(vii) and \$60.5420a(c)(5)(vi)(A)) |
|--|--|---|---|--|
| VesselRemoveDate | VesselReturnFlag | VesselReturnDate | SvMake | SvModel |
| e.g.: 11/15/16 | e.g.: Yes | e.g.: 11/15/16 | e.g.: Incinerator Guy | e.g.: 400 Combustor |

Storage Vessels Constructed, Modified, Reconstructed or Returned to :

| Serial Number of Purchased Device * (\$60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(A)) | Date of Purchase * (\$60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(B)) | Copy of Purchase Order * (\$60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(C)) | Latitude of Control Device (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (\$60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(D)) |
|---|--|---|--|
| SvSerialId e.g.: 123B3D392 | SvPurchaseDate e.g.: 12/10/16 | SvPurchaseFile e.g.: purchase_order.pdf or XYZCompressorStation.pdf | SvLatitude e.g.: 34.12340 |

Service During Reporting Period that Comply with §60.5395a(a)(2) with a Control Dev

| | | |
|---|--|---|
| <p>Longitude of Control Device (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(D))</p> | <p>Inlet Gas Flow Rate * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(E))</p> | <p>Please provide the file name that contains the Records of Pilot Flame Present at All Times of Operation * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(1)) Please provide only one file per record.</p> |
| SvLongitude | SvFlowRate | SvFlameFile |
| e.g.: -101.12340 | e.g.: 3000 scfh | e.g.: pilotflame.pdf or XYZCompressorStation.pdf |

ice Tested Under § 60.5413a(d)

| | | |
|--|--|---|
| <p>Please provide the file name that contains the Records of No Visible Emissions Periods Greater Than 1 Minute During Any 15-Minute Period * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(2)) Please provide only one file per record.</p> | <p>Please provide the file name that contains the Records of Maintenance and Repair Log * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(3)) Please provide only one file per record.</p> | <p>Please provide the file name that contains the Records of Visible Emissions Test Following Return to Operation From Maintenance/Repair Activity * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(4)) Please provide only one file per record.</p> |
|--|--|---|

SvEmissionFile

e.g.: noemissions.pdf or
XYZCompressorStation.pdf

SvMaintFile

e.g.: maintainlog.pdf or
XYZCompressorStation.pdf

SvVisibleFile

e.g.: emistest.pdf or
XYZCompressorStation.pdf

Please provide the file
name that contains the
Records of Manufacturer's
Written Operating
Instructions, Procedures
and Maintenance Schedule

*

(§60.5420a(b)(6)(vii) and
§60.5420a(c)(5)(vi)(F)(5))
Please provide only one file
per record.

SvInstructionFile

e.g.: manufinsruct.pdf or
XYZCompressorStation.pdf

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40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Cons
For the collection of fugitive emissions components at each well site and the collection of fugitive

The asterisk (*) next to each field indicates that the corresponding field is required.

| Facility Record No. * (Select from dropdown list - may need to scroll up) | Identification of Each Affected Facility * (\$60.5420a(b)(1)) | Date of Survey * (\$60.5420a(b)(7)(i)) |
|---|--|---|
|---|--|---|

| XML Tag: | FacId | SurveyDate |
|----------|---------------------|---------------|
| | e.g.: Well Site ABC | e.g.: 8/13/17 |

| | |
|----------------|------------|
| 5778 Mason Pad | 9/27/2017 |
| 5778 Mason Pad | 9/27/2017 |
| 5778 Mason Pad | 9/27/2017 |
| 5778 Mason Pad | 12/19/2017 |
| 5778 Mason Pad | 12/19/2017 |
| 5778 Mason Pad | 12/19/2017 |
| 5778 Mason Pad | 3/22/2018 |
| 5760 Miley Pad | 9/26/2017 |
| 5760 Miley Pad | 9/26/2017 |
| 5760 Miley Pad | 9/26/2017 |
| 5760 Miley Pad | 12/19/2017 |
| 5760 Miley Pad | 12/19/2017 |
| 5760 Miley Pad | 3/22/2018 |
| 5793 Neff Pad | 9/26/2017 |
| 5793 Neff Pad | 12/18/2017 |
| 5793 Neff Pad | 3/22/2018 |
| 5793 Neff Pad | 3/22/2018 |

struction, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report
 : emissions components at each compressor station within the company-defined area, an owner or operator m

[illegible]

must include the records of each monitoring survey including the information specified in paragraphs (

| Sky Conditions During Survey * (\$60.5420a(b)(7)(iv)) | Maximum Wind Speed During Survey * (\$60.5420a(b)(7)(iv)) | Monitoring Instrument Used * (\$60.5420a(b)(7)(v)) | Deviations From Monitoring Plan (If none, state none.) * (\$60.5420a(b)(7)(vi)) |
|--|--|--|--|
| SkyCondition | MaxWindSpeed | MonitoringInstrument | PlanDeviation |
| e.g.: Sunny, no clouds | e.g.: 2 mph | e.g.: Company ABC optical gas imaging camera | e.g.: None |
| Clear | 6-10 mph | Optical gas imaging camera | No |
| Clear | 6-10 mph | Optical gas imaging camera | No |
| Clear | 6-10 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Clear | 6-10 mph | Optical gas imaging camera | No |
| Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |
| Partially Cloudy | 0-5 mph | Optical gas imaging camera | No |

b)(7)(i) through (xii) of this section in all annual reports:

| Type of Component for which Fugitive Emissions Detected * (\$60.5420a(b)(7)(vii)) | Number of Each Component Type for which Fugitive Emissions Detected * (\$60.5420a(b)(7)(vii)) | Type of Component Not Repaired as Required in §60.5397a(h) * (\$60.5420a(b)(7)(viii)) | Number of Each Component Type Not Repaired as Required in §60.5397a(h) * (\$60.5420a(b)(7)(viii)) |
|--|--|--|--|
| FugitiveType | FugitiveNum | NotRepairedType | NotRepairedNum |
| e.g.: Valve | e.g.: 3 | e.g.: Valve | e.g.: 1 |
| | | | |
| | | | |
| | | | |
| Instrument | | 1 | |
| Flanges | | 1 | |
| Pressure Relief Devices | | 1 | |
| Other | | 1 | |
| Other | | 1 | |
| Open-Ended Lines | | 1 | |
| No leaks detected | | | |
| Pressure Relief Devices | | 1 | |
| Pressure Relief Devices | | 1 | |
| No leaks detected | | | |
| Open-Ended Lines | | 1 | |
| Other | | 1 | |
| No leaks detected | | | |
| Connector | | 1 | |
| Instrument | | 1 | |
| Instrument | | 1 | |
| Instrument | | 1 | |

| Date of Successful Repair of Fugitive Emissions Component * (\$60.5420a(b)(7)(x)) | Type of Component Placed on Delay of Repair * (\$60.5420a(b)(7)(xi)) | Number of Each Component Type Placed on Delay of Repair * (\$60.5420a(b)(7)(xi)) | Explanation for Delay of Repair * (\$60.5420a(b)(7)(xi)) |
|--|---|---|---|
|--|---|---|---|

| RepairDate | RepairType | RepairNum | RepairExplanation |
|----------------|-------------|-----------|--|
| e.g.: 11/10/16 | e.g.: Valve | e.g.: 1 | e.g.: Unsafe to repair until next shutdown |

9/30/2017
9/30/2017
9/30/2017
12/26/2017
12/26/2017
12/20/2017

9/30/2017
9/30/2017
9/30/2017
1/3/2018
1/3/2018

10/3/2017
12/29/2017
4/9/2018
4/9/2018

Type of Instrument Used to
Resurvey Repaired
Components Not Repaired
During Original Survey *
(\$60.5420a(b)(7)(xii))

ResurveyInstrumentType

e.g.: Company ABC optical
gas imaging camera

Soapy Water
Soapy Water
Soapy Water
Soapy Water
Soapy Water
Soapy Water

Soapy Water
Soapy Water
Soapy Water
Soapy Water
Soapy Water

Soapy Water
Soapy Water
Soapy Water
Soapy Water

| OGI |
|--|
| Training and Experience of Surveyor * (§60.5420a(b)(7)(iii)) |

Surveyor Experience

e.g.: Trained thermographer; completed 40-hour course at XYZ Training Center. Has 10 years of experience with OGI surveys.

Trained thermographer; completed 20-credit course at Infrared Training Center. Has 6.4 years of experience with OGI surveys.

Trained thermographer; completed 20-credit course at Infrared Training Center. Has 6.4 years of experience with OGI surveys.

Trained thermographer; completed 20-credit course at Infrared Training Center. Has 6.4 years of experience with OGI surveys.

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DO NOT REMOVE OR EDIT INFORMATION IN THIS SECTION

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Last Updated Date

40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification, or Reconstruction is Required

For each pneumatic pump affected facility, an owner or operator must include the information specified in paragraph (b)(8)(i) of this section.

The asterisk (*) next to each field indicates that the corresponding field is required.

| | | |
|---|---|---|
| Facility Record No. * (Select from dropdown list - may need to scroll up) | Identification of Each Pump * (§60.5420a(b)(1)) | Was the pneumatic pump constructed, modified, or reconstructed during the reporting period? * (§60.5420a(b)(8)(i)) |
|---|---|---|

XML Tag:

PumpId

e.g.: Pump 12-e-2

PumpConstruct

e.g.: modified

cation or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report
 graphs (b)(8)(i) through (iii) of this section in all annual reports:

| Which condition does the pneumatic pump meet? * (\$60.5420a(b)(8)(i)) | If your route emissions to a control device and the control device is designed to achieve <95% emissions reduction, specify the percent emissions reduction. * (\$60.5420a(b)(8)(i)(C)) | Identification of Each Pump * (\$60.5420a(b)(8)(ii)) |
|--|---|---|
| PumpCondition e.g.: Emissions are routed to a control device or process | PumpReductionPercent e.g.: 90% | PumpChangeld e.g.: Pump 12-e-2 |

Pneumatic Pumps Previously Reported that have a Change in Reported Condition During the Reporting Period

| Date Previously Reported* (\$60.5420a(b)(8)(ii)) | Which condition does the pneumatic pump meet? * (\$60.5420a(b)(8)(ii)) |
|---|--|
| PumpChangeDate e.g.: 10/15/17 | PumpChangeCondition e.g.: Control device/process removed and technically infeasible to route elsewhere |

Reporting Period

If you now route emissions to a control device and the control device is designed to achieve <95% emissions reduction, specify the percent emissions reduction. *
(§60.5420a(b)(8)(ii) and §60.5420a(b)(8)(i)(C))

Records of deviations where the pneumatic pump was not operated in compliance with requirements*
(§60.5420a(b)(8)(iii) and §60.5420a(c)(16)(ii))

PumpChangeReductionPercent

e.g.: 90%

PumpDeviation

e.g.: deviation of the CVS inspections

